

1	gcgctctcac	ccctcagcgg	gcggcggtga	gtgcgcacgg	ccagcgccgg	cgtgggacgg
61	acgcggcgag	aagcgccgag	ctgacacgtg	gcaccggttc	cgacagtcta	aaagaattcc
121	gagttagagt	acgcttccaa	AATGGCTGCT	ATTAAAGGAT	AGAGAGAGAT	GGAGAGATGC
181	AAGAGAAAAA	GGAAGACGAT	CAGCAGACGC	CATGAGCCTA	AGGAGCCAGA	CGAGTTGAGA
241	AAGCTGTGTA	GTGACGCTCT	GAGCTTCGAG	ACGACGGATG	ATAGCTTGAG	AGGCACTTTC
301	GA AAAATGGG	CTCAGGACCT	CGACTGTGTG	TCGTATGAGG	ACCCACAAR	AAACAGTTC
361	AGAGGCTTTG	GCTTTGTTCAT	TACTGTTCG	TCGTGAAGAG	TGGATGCGCG	CATGAGCGCT
421	CGACACATA	AGGTGGATGG	AGCTGTGTT	GAACCAAGA	GAGCAGTTTC	AGGAGGAGAT
481	TCTGTAAAGC	CTGGGGCGCA	TCTCAGTA	AAGAAAAAT	TTGTTGGTGG	CATTAAAGAA
541	GATACAGAAG	AATATAAATT	AAGGGGGTAC	TTTGAACAT	ATTGGCAAGT	CGAACCGATA
601	GAAGTCTAG	GACAGACACA	AAGTGGGAAG	AAAGAGCGT	TCGCTTTTCT	AACTTTTGAT
661	GATCAGATA	CAGTTGATATA	AATTTGTTT	CAGATAATCC	ATACTATAAA	TCGCTATAAC
721	TGCGAAGATA	AAAAAGCACT	CTCAAAACA	GAGATCGACA	CTCGACGCTC	GACGAGGTG
781	CGTGGGGGTG	TCTCAGGCAA	CTTCATGGGT	CGTGAAATT	TTGGAGGTGG	TGGAGGAAAC
841	TTTGGCCGAG	GAGAAACTTC	TGGTGGAAAG	GAGGCGTATG	GGGGTGGTGG	TGGGGTGGGT
901	GGGACGACAG	GAACTTTTGG	GGGTGGTATG	GAGATACAAG	GATTGGTGA	TGCTGGCAAC
961	TATGGAGGTG	GTCTTGGCTA	TGGACGAGA	GGGGTGTG	GTGGTGGTGG	AGGACCGAGA
1021	TATGGAATCC	CAGGTGGTGG	ATATGGAGGT	GGAGGGATG	GATATGGTGG	CTCAATGAA
1081	GGAGGCAATT	TTGGAGGTGG	TAAATTATGA	GGCAGTGGAA	ACTACAATGA	CTTTGGTAAC
1141	TACAGTGGAC	AGCAGCACTC	CAATTAGCTG	CCCATGAAAG	GTGGTGGCAG	TTTTGGTGTG
1201	AGAAGTTTCAG	CGAGTCCCTA	TGTTGGTGT	TATGATCTAT	GAAGTGGGAG	TGGGGGCTAT
1261	GGTGGTAGAA	GATTCTaaaa	atgtctaccg	aaaaaaggct	acagttctta	gcaggagaga
1321	gagcgagag	tgtctcagaa	acgtctcaggt	tacttttaga	cagtcgtccc	aaatgcatta
1381	gaggaactgt	aaaactctgcc	acagaaaggaa	cagtgatcca	tagtcagaaa	agttactgca
1441	gcttaaacag	gaacaccttc	tgtctcagga	ctgtcatagc	cacagtttgc	aaaaagagca
1501	gctatttggt	aatgcaatgt	atgtctcgta	gagtgatcat	ctagagtttc	tatctgtgtg
1561	agctatttgt	tctctttttc	tttttttttt	ccattacat	caggtatatt	gcctgttaa
1621	tttgttgagt	ggtaccaggaa	ataaacaaat	taagggaatt	ttggtctttc	aaaaaataaa
1681	aaaaaataaa					

CHKA1	-	MAAIKEEREVEDYKRKRKTISTGHEPKEPEQLRKLFIGGLSFET	<u>TTD</u> <u>DSL</u>	-50
HUMA1	-	M-----SKSESPEKEPEQLRKLFIGGLSFET	TD	-31
CHKA1	-	<u>E</u> QFEKWGTLTDCVVMRDPTQKRSGFGFVITYSCVEEVDAA	SARPHKVDG	-100
HUMA1	-	<u>S</u> HEEQWGTLTDCVVMRDPTNKRSGFGFVITYATVEEVDAA	NARPHKVDG	-81
CHKA1	-	RVVEPKRAVSREDSVKPGAHLTVKKIFVGGIKEDTEEYNLRGYFETYGKI		-150
HUMA1	-	RVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHLRDYFEQYQKI		-131
CHKA1	-	ETIEVMEDRQSGKKR	<u>GFA</u> <u>EV</u> <u>T</u> DDHDTVDKIVQKYHTINGHNCEDKKAL	-200
HUMA1	-	EVIEINTDRSGSKKR	<u>GFA</u> <u>EV</u> <u>T</u> DDHDSVDKIVQKYHTVNGHNCEVRKAL	-181
CHKA1	-	SKQEMQTASS-QRGRGGGSGFMGRNGFGGGG-----	NFGRGGNFGG	-242
HUMA1	-	SKQEMASASSSQRGRSGS-----	GNFGGGRGGGFGGNDNFGRGGNFGG	-224
CHKA1	-	RGYGGGGGGGGSGRSGFGGGDGYNGFGDGGNYGGGPGYSGRGGYGGGGGP		-292
HUMA1	-	RGGFGGSRGGGGYGGG----	GDGYNGFGNDGS-----	-252
CHKA1	-	GYGNPGGGYGGGGGGYGYNGGNFGGGNYGGSGNYNDFGNY	<u>SCQ</u> <u>Q</u> <u>S</u> <u>N</u> <u>Y</u>	-342
HUMA1	-	-----	NFGGGGSGYNGGNYNQ-S-NF	-273
CHKA1	-	GPMKGGGSGFGRSSGSPYGGG-----	YGS	-378
HUMA1	-	GPMKGG-NFGGRSSG-PYGGGGQYFAKPRNQGGYGGSSSSSYSGGRF		-320

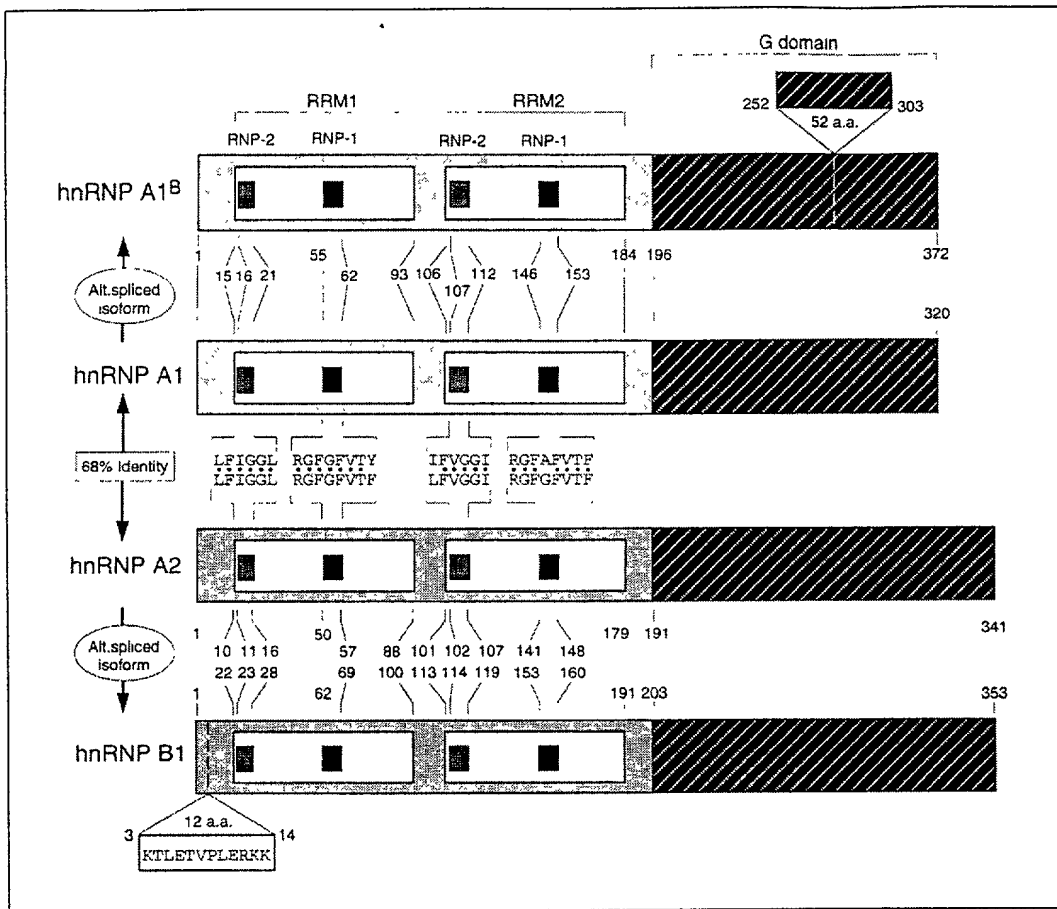


Fig. 2

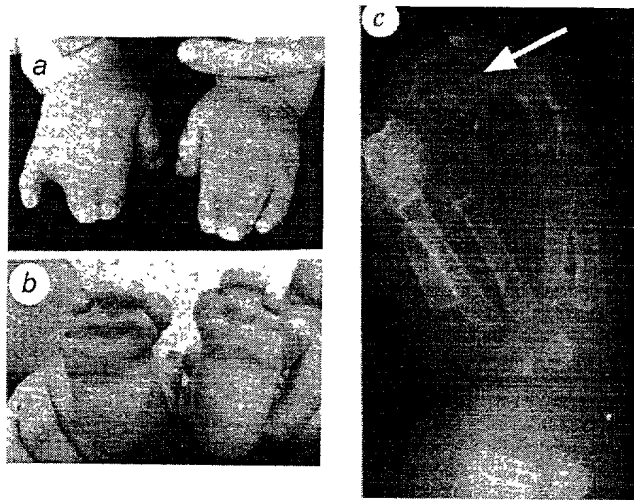


Fig. 3

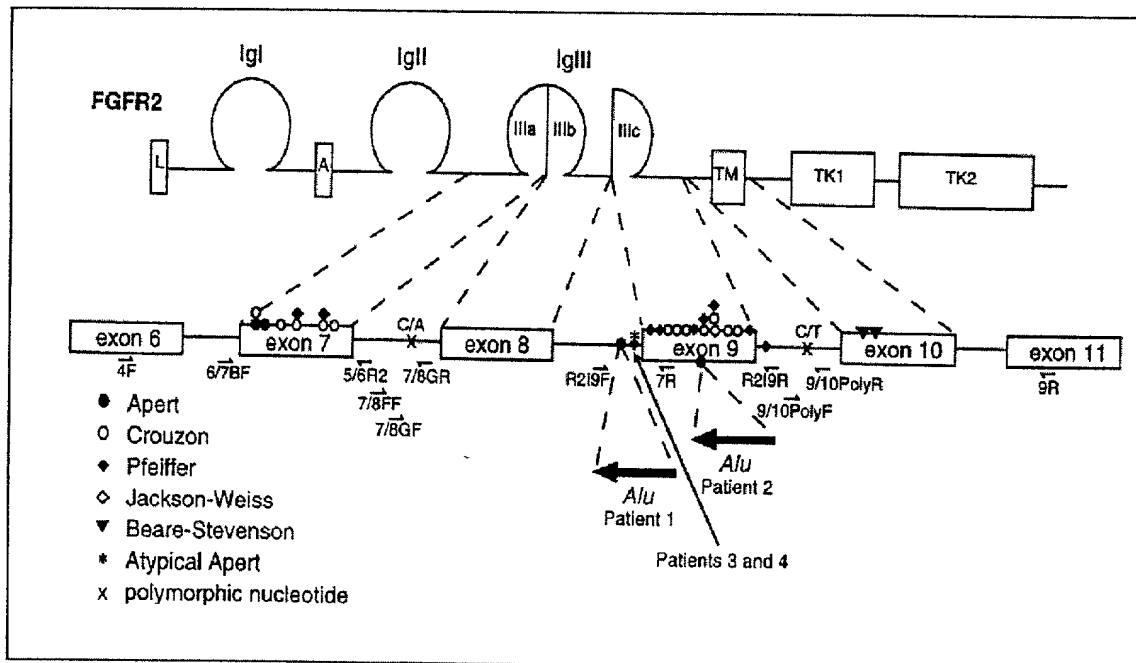
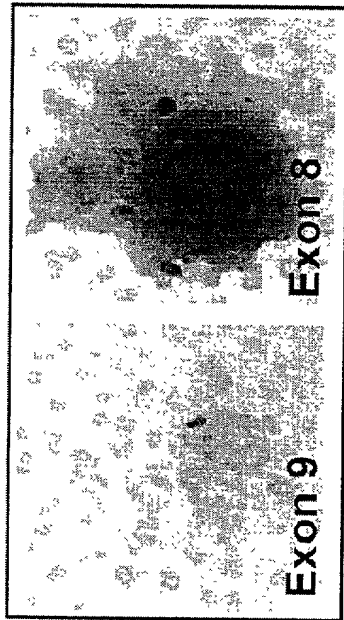
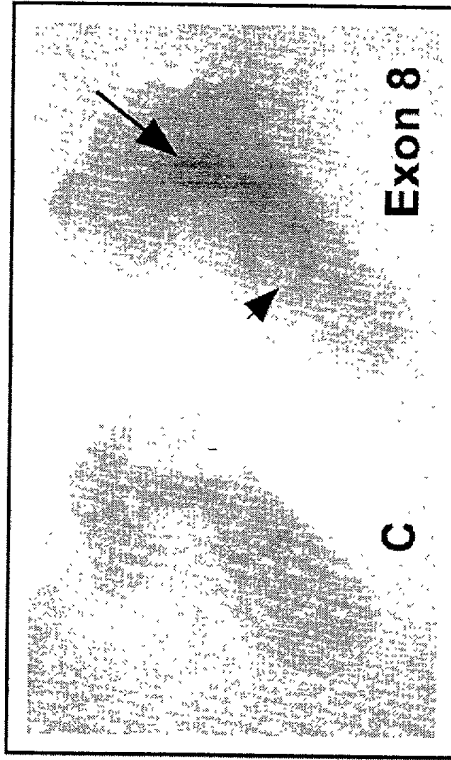


Fig. 4

A.



B.



C.

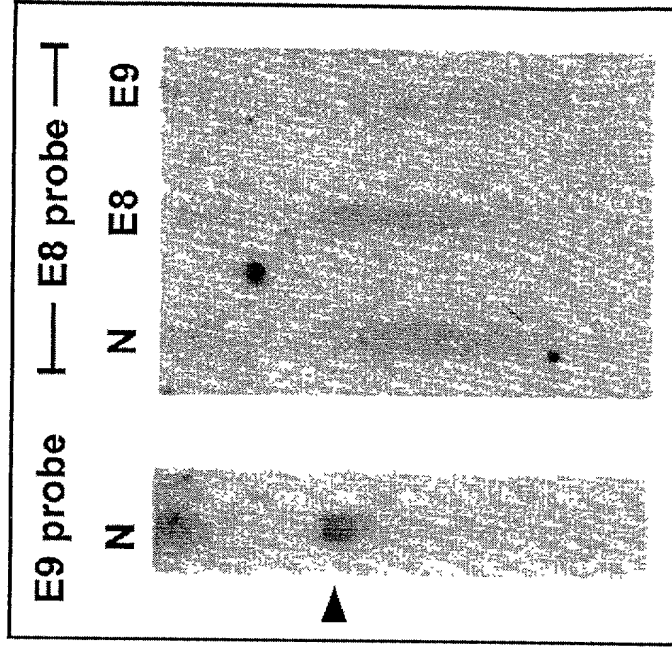


Fig-5